PROJECT TITLE : Unit Operations II

PERIOD COVERED : January 7th - 25th, 1980

WRITTEN BY : N. Lüthi

Strips extraction

Visit to Extraktionstechnik in Hamburg (Ref. 1)

This visit was arranged to discuss all the problems connected with the rent of a small carrousel extractor (Ref. 2).
Our problems were discussed with Mr. Jess from Ex-Technik and were solved to our satisfaction. The examination of the extractor that followed showed a well constructed apparatus. It seems interesting to carry out a trial programme with this extractor in our pilot plant.
The theoretical capacity of this extractor ranges from ~ 1 kg to ~ 70 kg of strips per hour. The capacity depends on the extraction time and the filling level of the strips in the chambers.
The rotor volume (0.25 m^3) is divided into 12 V - shape chambers.
The external rotor diameter is 1 m.
The external measurements of the whole apparatus are about 2 m in diameter and about 2.6 m in height.

Dust sieving for Monique / RCB

Further trials were carried out to find an explanation for the clogging problems on the lower sieves (100 mesh steel web).
There was no improvement observed by changing the 100 mesh sieves from steel to nylon web.
The main problem seems to be the hygroscopic phenomena caused by the fineness of the dust particles (< 80 mesh).

Dust stock situation

The total dust stock in Onnens is 142 tons. For the first time we observed a decrease of the stock (10 tons less than the previous month).

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Source: https://www.industrydocuments.ucsf.edu/docs/rknl0000

Miscellaneous

Assistance was given to P. Karbacher (Permeability of strips).

References

1) Report on the visit to Extraktionstechnik in Hamburg of January 18th 1980; January 29th, 1980, N. Lüthi.

2) Monthly report, January 1980, Unit Operations I, P. Karbacher.

PROCESS DEVELOPMENT

N. Lüthi

January 29th, 1980
NIL/sde

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